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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,365	06/23/2005	Hiroshi Morikawa	2950-051771 3495	
28289 7590 05/09/2007 THE WEBB LAW FIRM, P.C. 700 KOPPERS BUILDING			EXAMINER	
			YEE, DEBORAH	
436 SEVENTH AVENUE PITTSBURGH, PA 15219			ART UNIT	PAPER NUMBER
			1742	
				
			MAIL DATE	DELIVERY MODE
			05/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

. 4					
,	Application No.	Applicant(s)			
	10/540,365	MORIKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Deborah Yee	1742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02 Ma	arch 2007.				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 4-7 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>4-7</u> is/are rejected.		•			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the o					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 10/540,365 Page 2

Art Unit: 1742

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 4 to 7 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4 to 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 354087629 (hereinafter JP'629) or Japanese patent 402270942 (herein after JP'942).
- 4. The English abstract of JP'629 and JP'942, each teach a ferritic stainless steel alloy having a composition with constituents whose wt% ranges overlap those recited by the claims; such overlap establishes a prima facie case of obviousness because it would be obvious for one skilled in the art to the select the claimed alloy wt% ranges over the broader disclosure of the prior art since the prior art teaches similar workability properties, see MPEP 2144.05.
- 5. Moreover, English abstract of JP'629 teaches retaining Al₂O₃ inclusions with a diameter of more than 5 μm in an area range of 0.01 wt%, which would overlap and

Application/Control Number: 10/540,365 Page 3

Art Unit: 1742

therefore closely suggest present invention limitation wherein Al_2O_3 inclusions of 10 μ m or less at restricted to 0.06% or less. In regard to composition, JP'629 steel contains $\leq 0.02\%$ N having a lower limit of zero and therefore not required. Also 0.02 to 0.8% V is optional and not required. Hence prior art meets the "consisting of" limitation recited by the claims.

- 6. The English abstract of JP'942 discloses a steel having high-purity and high cleanliness whereby the total sum of oxide-type inclusions and sulfide-type inclusions is regulated to no more than 0.02% and is within the present invention index of cleanliness of 0.06% or less. Even though oxide inclusion of 10 µm or less as recited by the claims is not taught by prior art, such would be expected since composition and index of cleanliness are closely met, and in absence of proof to the contrary. In regard to composition, JP'942 steel additionally contains 0.005 to 0.2% N. It would seem, however, that the presence of 0.005% N would be equivalent to at an inevitable impurity level and therefore not excluded from the claimed "consisting of " limitation.
- 7. Even though prior art does not teach work hardening, such step would be obvious to incorporate since the English abstract of JP'942 and JP'629, both teach steel having excellent workability.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-27211253. The examiner can normally be reached on monday-friday 6:00am-2:30pm.

Art Unit: 1742

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deborab Yee Primary Examiner

Art Unit 1742